

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01Q1/27 G04G1/00 H01Q9/04 G01S1/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01Q G04G G01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 564 236 A (CITIZEN WATCH CO LTD) 6 October 1993 (1993-10-06) column 6-10; figures 1,3	1
A	EP 0 982 639 A (CASIO COMPUTER CO LTD) 1 March 2000 (2000-03-01) cited in the application column 3-15; figures 1-3,9	1
A	EP 0 703 513 A (CITIZEN WATCH CO LTD) 27 March 1996 (1996-03-27) column 4; figures 1,2	1



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

17 October 2002

Date of mailing of the international search report

30/10/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Ribbe, J

INTERNATIONAL SEARCH REPORT

PCT/EP 02/06669

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0564236	A	06-10-1993	DE 69318752 D1	02-07-1998
			DE 69318752 T2	22-10-1998
			EP 0564236 A2	06-10-1993
			US 5331608 A	19-07-1994
EP 0982639	A	01-03-2000	JP 2000138607 A	16-05-2000
			CN 1246621 A	08-03-2000
			EP 0982639 A2	01-03-2000
			KR 2000017469 A	25-03-2000
			US 6249487 B1	19-06-2001
EP 0703513	A	27-03-1996	EP 0703513 A1	27-03-1996
			WO 9527928 A1	19-10-1995
			US 5696518 A	09-12-1997